

General-purpose PLC → MELSEC-Q series Upgrade tool "Universal conversion adapter"

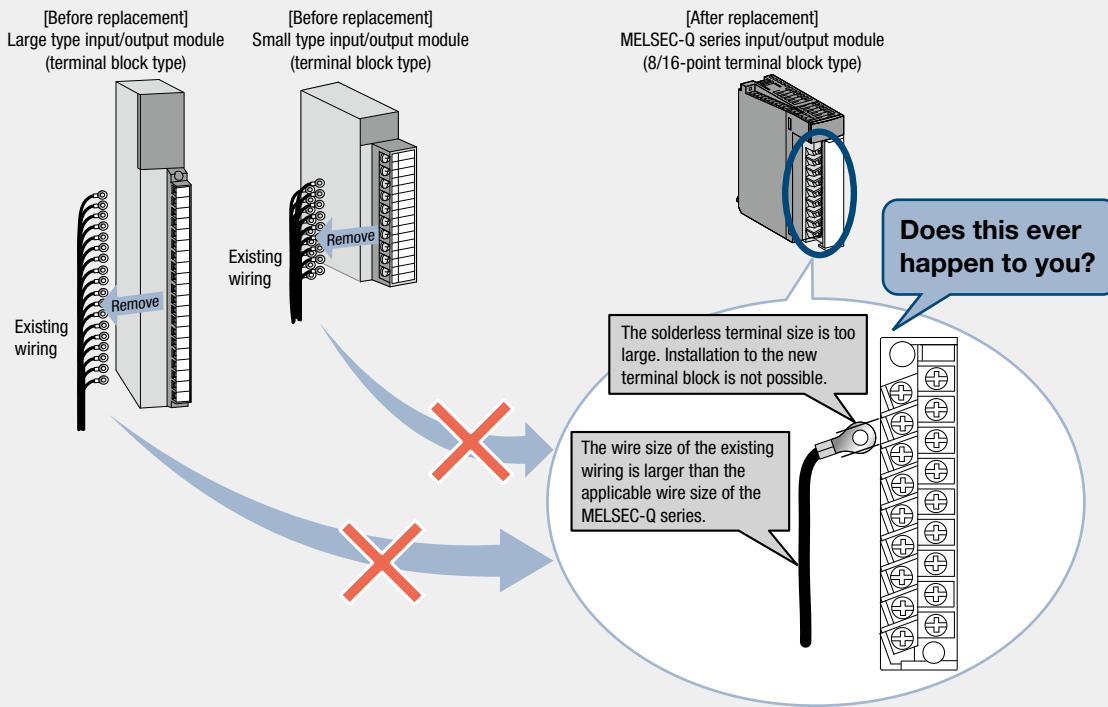
Replacing general-purpose PLC with the MELSEC-Q series

■ Universal conversion adapter

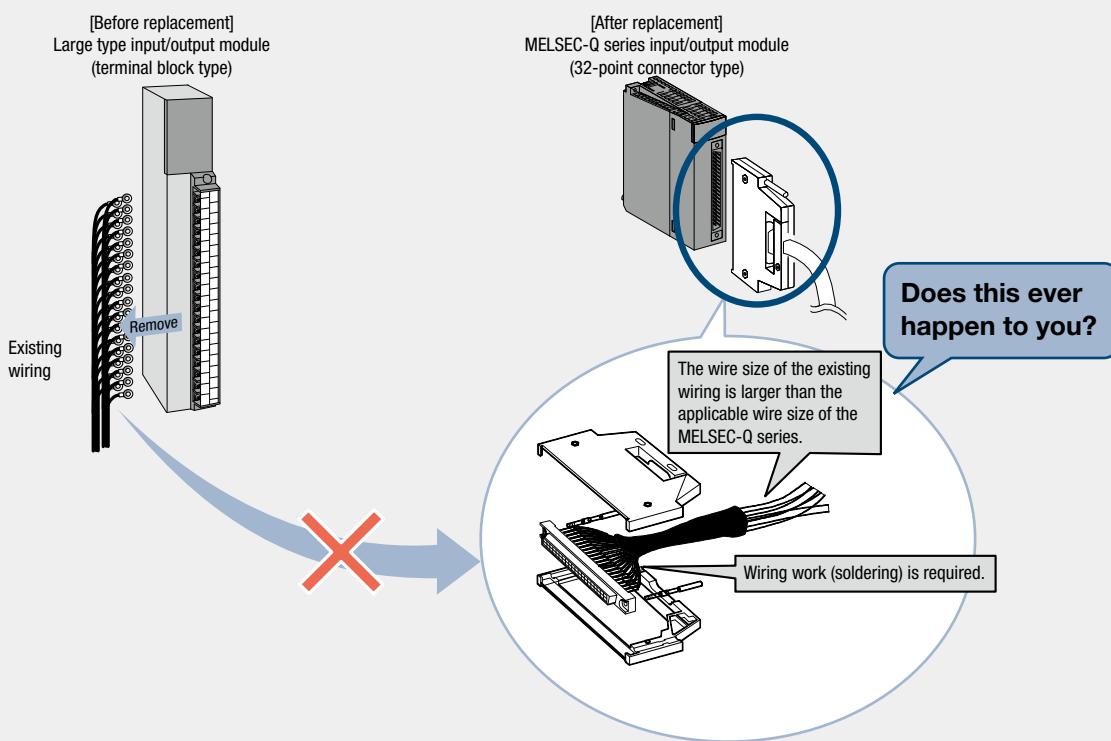
The universal conversion adapter reduces the time required for rewiring input/output modules (terminal block type) when replacing a general-purpose PLC with the MELSEC-Q series programmable controller manufactured by Mitsubishi Electric.

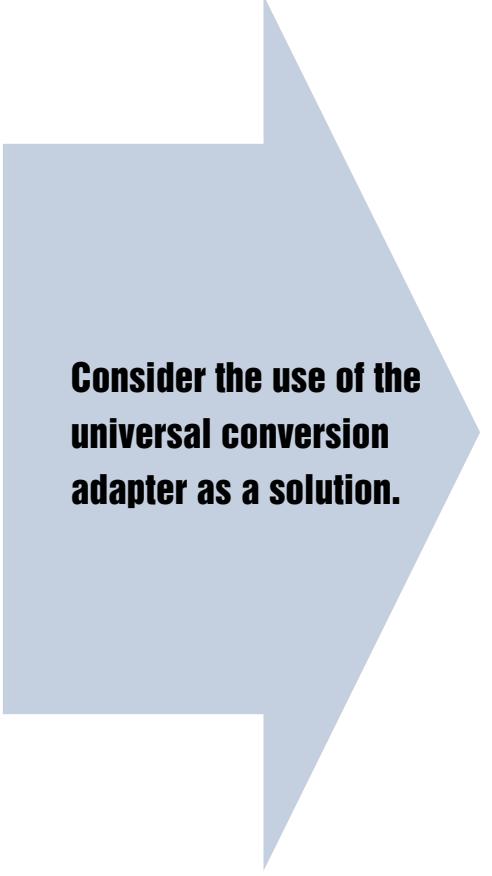
Product overview

- You want to replace input/output modules (terminal block type) of a general-purpose PLC with those (terminal block type) of the MELSEC-Q series, but there are some problems.



- You want to replace input/output modules (terminal block type) of a general-purpose PLC with those (connector type) of the MELSEC-Q series, but there are some problems.





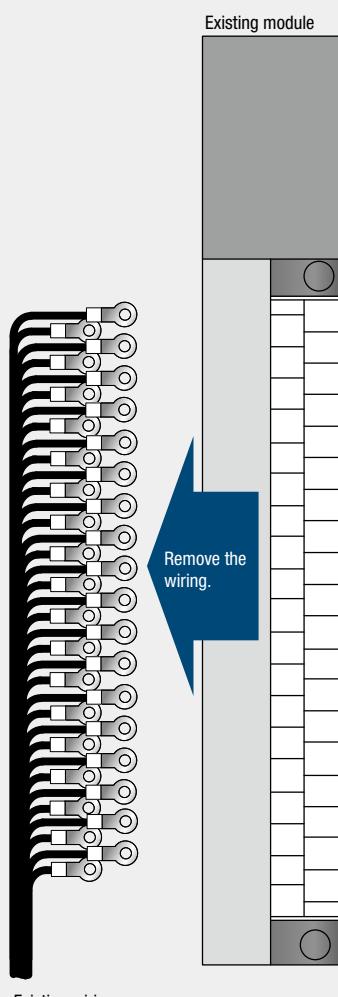
Consider the use of the universal conversion adapter as a solution.

If the specifications of the devices currently connected satisfy the specifications of the MELSEC-Q series input/output module, you can use the universal conversion adapter for replacement, regardless of the manufacturer of the PLC!

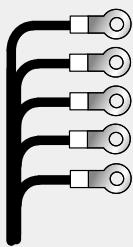
Note that this product is designed under the premises that rewiring (reinstallation of existing wiring to the terminal block) will be performed by the user.

Replacement procedure

1) Remove the wiring from the terminal block of the existing module.



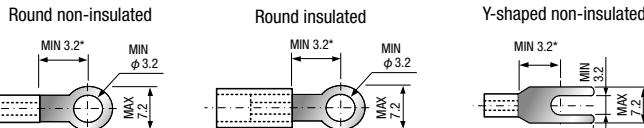
2) Check the solderless terminals.



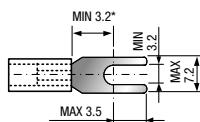
- Check the dimensions of solderless terminals.
- Change the terminals which are not applicable to the universal conversion adapter.

Universal conversion adapter (large type)

• Applicable solderless terminals

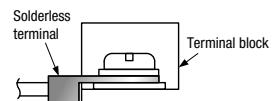
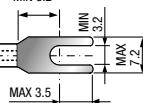


Y-shaped insulated

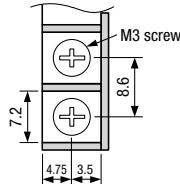


*: The minimum dimension will be 4.75mm when a solderless terminal is installed upside down as shown in the right figure.

Y-shaped non-insulated

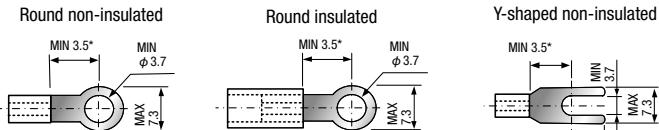


• Terminal block shape

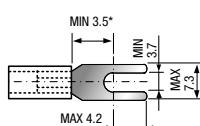


Universal conversion adapter (small type)

• Applicable solderless terminals

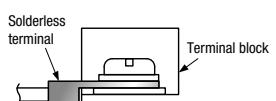
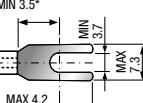


Y-shaped insulated

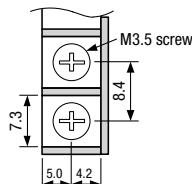


*: The minimum dimension will be 5.0mm when a solderless terminal is installed upside down as shown in the right figure.

Y-shaped non-insulated



• Terminal block shape

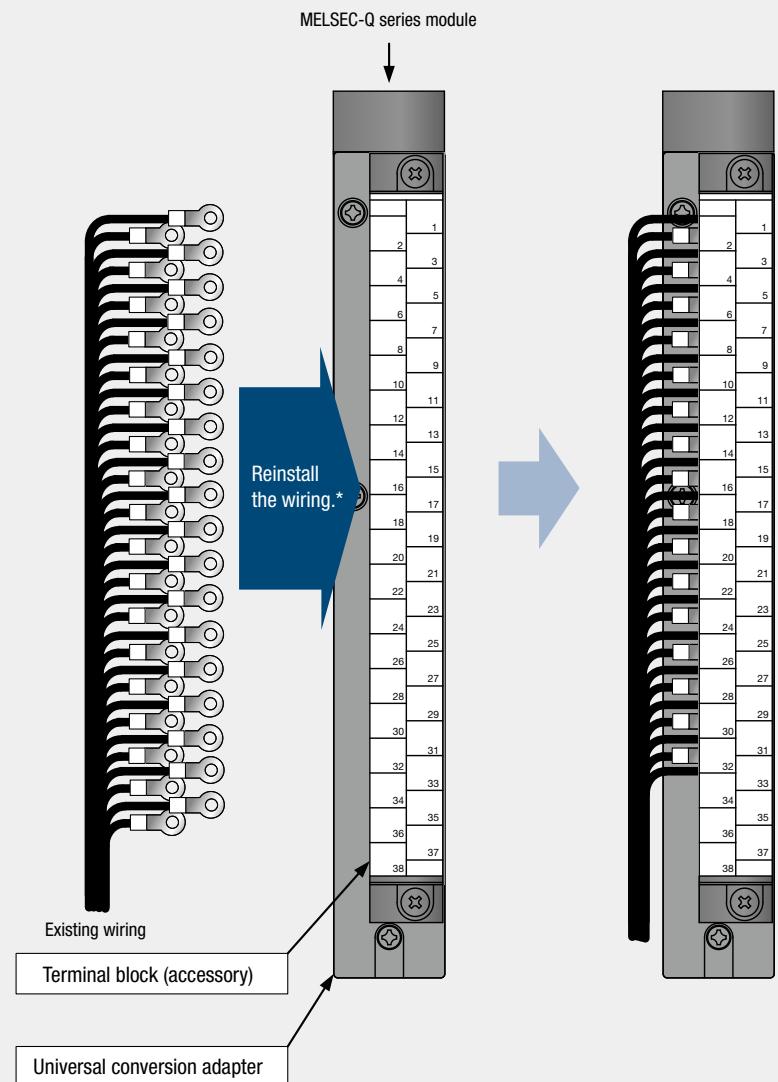


3) Reinstall the removed wiring to the terminal block of the universal conversion adapter.

Check the external connection diagram of each MELSEC-Q series module used, and reinstall the removed wiring to the terminal block of the universal conversion adapter.

External connection diagram (example)

Terminal No.	Signal name
TB1	X00
TB2	X01
TB3	X02
TB4	X03
TB5	X04
TB6	X05
TB7	X06
TB8	X07
TB9	X08
TB10	X09
TB11	X0A
TB12	X0B
TB13	X0C
TB14	X0D
TB15	X0E
TB16	X0F
TB17	X10
TB18	X11
TB19	X12
TB20	X13
TB21	X14
TB22	X15
TB23	X16
TB24	X17
TB25	X18
TB26	X19
TB27	X1A
TB28	X1B
TB29	X1C
TB30	X1D
TB31	X1E
TB32	X1F
TB33	COM
TB34	Open
TB35	Open
TB36	Open
TB37	Open
TB38	Open
24VDC	

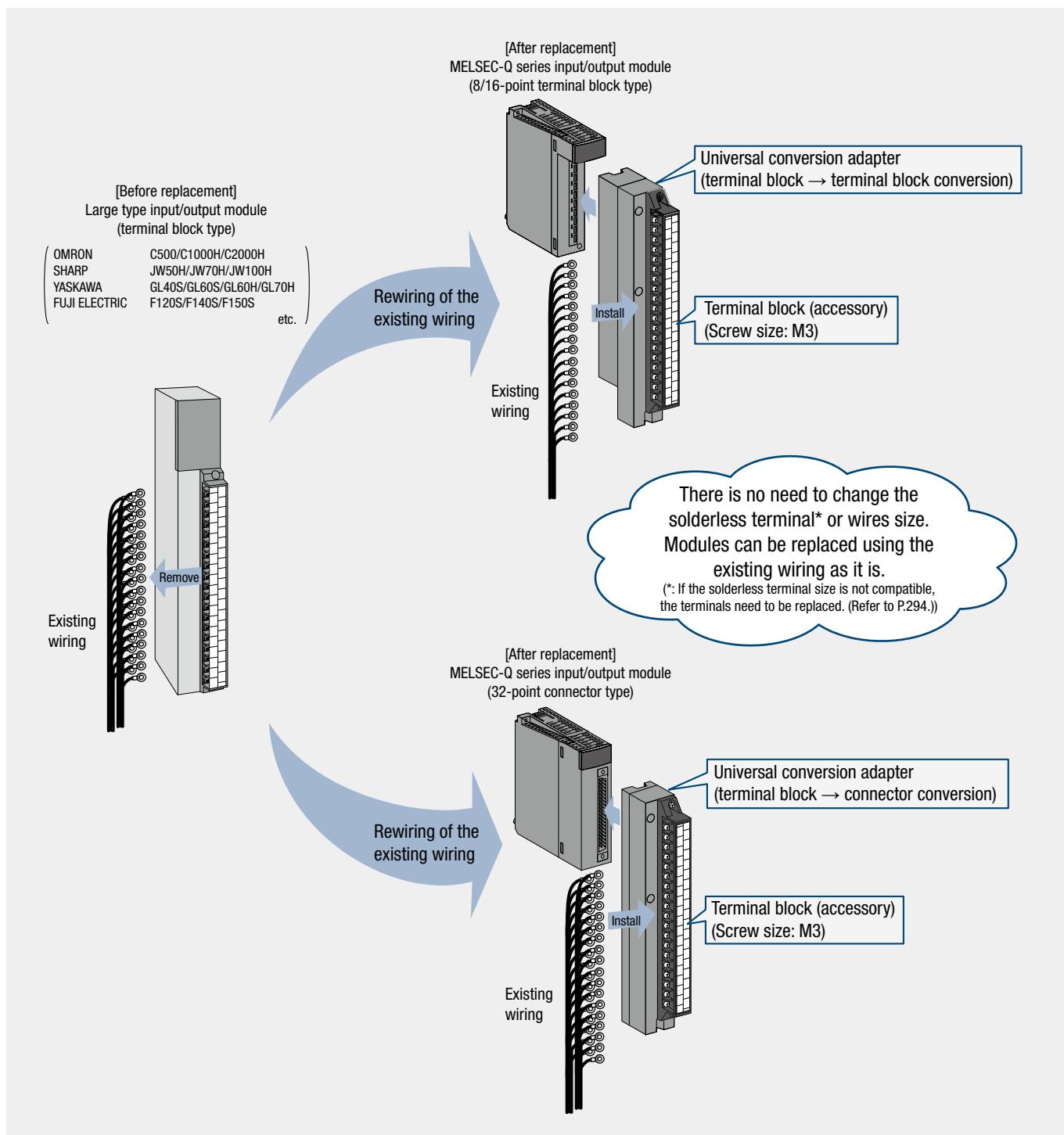


*: After replacement, connect wires in accordance with the terminal numbers and signal names of the universal conversion adapter.

*: Depending on the change in the number of points per common (for example 8 points/common → 16 points/common), the connected devices (such as switches) may also need to be changed.

*: When any wires are left unconnected, connect them to open terminals or insulate them.

Replacing a general-purpose PLC (large type) with the MELSEC-Q series



Replacing a general-purpose PLC (small type) with the MELSEC-Q series

